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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A marking composition, comprising:

a polymer first material comprising silicon; and

a second material capable of extending polymeric chains of the first material,

wherein the first material comprises a phenyl methyl silicone resin and the <u>molar</u> weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1, <u>and the first material does not include an alkoxy group</u>, and

the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 2. (Original) The composition of claim 1, wherein the second material is capable of crosslinking with the first material.
- 3. (Original) The composition of claim 1, wherein the second material comprises a polyol.
- 4. (Original) The composition of claim 1, wherein the second material is selected from a group consisting of a diol and a triol.
 - 5. 8. Canceled.
 - 9. (Original) The composition of claim 1, further comprising a crosslinking agent.
- 10. (Original) The composition of claim 9, wherein the crosslinking agent comprises a silane.
 - 11. (Previously presented) A marking composition, comprising:
 - a polymer first material comprising silicon;
 - a second material capable of extending polymeric chains of the first material; and
 - a blocked, catalytic crosslinking agent,
- wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

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12. (Original) The composition of claim 11, wherein the blocked crosslinking agent comprises a carbamate.

- 13. (Original) The composition of claim 1, further comprising a catalyst.
- 14. (Original) The composition of claim 13, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.
 - 15. (Previously presented) A marking composition, comprising:
 - a polymer first material comprising silicon;
 - a second material capable of extending polymeric chains of the first material; and an optical tag,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 16. (Previously presented) A marking composition, comprising:
- a polymer silicone resin; and
- a blocked, catalytic crosslinking agent capable of crosslinking with the resin,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 17. Canceled.
- 18. (Original) The composition of claim 16, wherein the resin comprises a combined aromatic and aliphatic substituted silicone resin.
- 19. (Original) The composition of claim 16, wherein the resin comprises a phenyl methyl silicone resin.
- 20. (Currently amended) The composition of claim 19, wherein the <u>molar</u> ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
 - 21. Canceled.
 - 22. Canceled.
- 23. (Previously presented) The composition of claim 16, wherein the crosslinking agent comprises a carbamate.
 - 24. (Original) The composition of claim 16, further comprising a catalyst.

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25. (Original) The composition of claim 24, wherein the catalyst is selected from a group consisting of platinum-based catalyst and zinc-based catalyst.

26. (Previously presented) The composition of claim 16, comprising about 10 to about 90 percent of the resin; and about 0.1 to about 9 percent of the crosslinking agent.

27. - 34. Canceled

35. (Currently amended) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising:

a polymer first material comprising silicon; and

a second material capable of extending polymeric chains of the first material,

wherein the first material comprises a phenyl methyl silicone resin and the <u>molar</u> weight ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1, <u>and the first material does not include an alkoxy group</u>, and

the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 36. (Original) The article of claim 35, wherein the second material is capable of crosslinking with the first material.
- 37. (Original) The article of claim 35, wherein the second material comprises a polyol.
- 38. (Original) The article of claim 35, wherein the second material is selected from a group consisting of a diol and a triol.

39. - 42. Canceled.

- 43. (Previously amended) The article of claim 35, wherein the composition further comprises a crosslinking agent.
- 44. (Original) The article of claim 43, wherein the crosslinking agent comprises a silane.
 - 45. (Previously presented) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising

a polymer first material comprising silicon;

a second material capable of extending polymeric chains of the first material; and

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a blocked, catalytic crosslinking agent,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 46. (Original) The article of claim 45, wherein the blocked crosslinking agent comprises a carbamate.
- 47. (Previously presented) The article of claim 35, wherein the composition further comprises a catalyst.
- 48. (Original) The article of claim 47, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.
 - 49. (Previously presented) An article, comprising:

a substrate; and

a marking composition on the substrate, the composition comprising

a polymer first material comprising silicon;

a second material capable of extending polymeric chains of the first material; and an optical tag,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

- 50. (Original) The article of claim 35, wherein the substrate comprises a metal.
- 51. (Original) The article of claim 35, wherein the substrate is a beverage can.
- 52. (Previously presented) The composition of claim 11, wherein the second material is capable of crosslinking with the first material.
- 53. (Previously presented) The composition of claim 11, wherein the second material comprises a polyol.
- 54. (Previously presented) The composition of claim 11, wherein the second material is selected from a group consisting of a diol and a triol.
- 55. (Previously presented) The composition of claim 11, wherein the first material comprises a silicone resin.
- 56. (Previously presented) The composition of claim 11, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.

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57. (Previously presented) The composition of claim 11, wherein the first material comprises a phenyl methyl silicone resin.

- 58. (Currently amended) The composition of claim 57, wherein the <u>molar weight</u> ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
- 59. (Previously presented) The composition of claim 11, further comprising a catalyst.
- 60. (Previously presented) The composition of claim 59, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.
- 61. (Previously presented) The composition of claim 15, wherein the second material is capable of crosslinking with the first material.
- 62. (Previously presented) The composition of claim 15, wherein the second material comprises a polyol.
- 63. (Previously presented) The composition of claim 15, wherein the second material is selected from a group consisting of a diol and a triol.
- 64. (Previously presented) The composition of claim 15, wherein the first material comprises a silicone resin.
- 65. (Previously presented) The composition of claim 15, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.
- 66. (Previously presented) The composition of claim 15, wherein the first material comprises a phenyl methyl silicone resin.
- 67. (Currently amended) The composition of claim 66, wherein the <u>molar weight</u> ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
- 68. (Previously presented) The composition of claim 15, further comprising a crosslinking agent.
- 69. (Previously presented) The composition of claim 68, wherein the crosslinking agent comprises a silane.
- 70. (Previously presented) The composition of claim 15, further comprising a catalyst.

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71. (Previously presented) The composition of claim 70, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.

- 72. (Previously presented) The composition of claim 45, wherein the second material is capable of crosslinking with the first material.
- 73. (Previously presented) The composition of claim 45, wherein the second material comprises a polyol.
- 74. (Previously presented) The composition of claim 45, wherein the second material is selected from a group consisting of a diol and a triol.
- 75. (Previously presented) The composition of claim 45, wherein the first material comprises a silicone resin.
- 76. (Previously presented) The composition of claim 45, wherein the first material comprises a combined aromatic and aliphatic substituted silicone resin.
- 77. (Previously presented) The composition of claim 45, wherein the first material comprises a phenyl methyl silicone resin.
- 78. (Currently amended) The composition of claim 77, wherein the <u>molar weight</u> ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.
- 79. (Previously presented) The composition of claim 45 further comprising a catalyst.
- 80. (Previously presented) The composition of claim 79, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst and a Lewis acid.
 - 81. (Currently amended) A marking composition, comprising:

a polymer first material comprising a phenyl methyl silicone resin, the molar weight ratio of phenyl to methyl groups being between about 0.4:1 and 2.1:1; and

a crosslinking agent,

wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

82. (Previously presented) The composition of claim 81, wherein the crosslinking agent comprises a silane.

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83. (Previously presented) The composition of claim 81, further comprising a blocked crosslinking agent.

- 84. (Previously presented) The composition of claim 83, wherein the blocked crosslinking agent comprises a carbamate.
- 85. (Previously presented) The composition of claim 81, further comprising a catalyst.
- 86. (Previously presented) The composition of claim 85, wherein the catalyst is selected from a group consisting of a platinum-based catalyst, a zinc-based catalyst, and a Lewis acid.
- 87. (Previously presented) The composition of claim 15, wherein the optical tag comprises 2,2'-(2,5-thiophenediyl)bis[5-tert-butylbenzoxazole].
- (Previously presented) The article of claim 49, wherein the optical tag comprises 88. 2,2'-(2,5-thiophenediyl)bis[5-tert-butylbenzoxazole].
- (Previously presented) The composition of claim 11, wherein the crosslinking agent is capable of deblocking to form an amine.
- 90. (Previously presented) The composition of claim 11, wherein the crosslinking agent comprises a silane.
- 91. (Previously presented) The composition of claim 16, wherein the crosslinking agent is capable of deblocking to form an amine.
- (Previously presented) The composition of claim 16, wherein the crosslinking 92. agent comprises a silane.
- 93. (Previously presented) The composition of claim 45, wherein the crosslinking agent is capable of deblocking to form an amine.
- 94. (Previously presented) The composition of claim 45, wherein the crosslinking agent comprises a silane.
- 95. (New) A marking composition, comprising: a polymer first material comprising silicon, the first material being alkyl aromatic substituted; and
 - a second material capable of extending polymeric chains of the first material,

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wherein the marking composition is capable of undergoing a change that can be detected optically when the composition is contacted with energy.

96. (New) The composition of claim 95, wherein the alkyl group is a methyl group, an ethyl group, or a propyl group.

- 97. (New) The composition of claim 95, wherein the first material comprises a phenyl group.
- 98. (New) The composition of claim 95, wherein the first material comprises a phenyl methyl silicone resin and the molar ratio of phenyl to methyl groups is between about 0.4:1 and 2.1:1.